AC charging cable - EV-T2M3C-1AC20A-4,0M2,5EHRD00 - 1405194

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Product Description

AC charging cable with Vehicle Connector and open cable end for charging electric vehicles (EV) with alternating current (AC) via type 2 Vehicle Inlets, for installation at charging stations for E-Mobility (EVSE)

Your advantages

- Consistent design of all Phoenix Contact Vehicle Connectors and Infrastructure Plugs
- Silver-plated surface of the power and signal contacts
- Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- Material data available in the IMDS (International Material Data System of the automotive industry)
- Convenient handling, thanks to the ergonomic handle and additional, rubber grip components

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 737050
GTIN	4046356737050
Custom tariff number	85444290
Country of origin	Germany

Technical data

Product definition

Type	D-Line
Application	AC charging cable with Vehicle Connector, open cable end, with protective cap

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Product definition

Standards/regulations	IEC 62196-2
Charging standard	Type 2
Charging mode	Mode 3, Case C

Dimensions

Vehicle connector width	60.00 mm
Vehicle connector height	102.90 mm
Vehicle connector depth	229.60 mm
Conductor length	4 m
Stripping length	45 mm ±10 mm

Ambient conditions

Ambient temperature (operation)	-30 °C ... 50 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Max. altitude	5000 m (above sea level)
Degree of protection	IP44 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products)
	IP44 (Protective cap)

Electrical properties

Maximum charging power	5 kW
Number of phases	1
Number of power contacts	3 (L1, N, PE)
Rated current of power contacts	20 A
Rated voltage for power contacts	250 V AC
Number of signal contacts	2 (CP, PP)
Rated current for signal contacts	2 A
Rated voltage for signal contacts	30 V AC
Type of signal transmission	Pulse width modulation
Note on the connection method	Crimp connection, cannot be disconnected
Resistor coding	680 Ω (between PE and PP)

Mechanical properties

Insertion/withdrawal cycles	> 10000
Insertion force	< 100 N
Withdrawal force	< 100 N

Design

Design line	D-Line
Housing color	black

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Design

Mating face color	gray
Color handle area	gray
Color protective cap	black
Label	14.1 mm x 44.8 mm (customer logo on request)

Material

Housing material	Plastic
Material handle area	Soft plastic
Material protective cap	Soft plastic
Material mating face	Plastic
Material surface of contacts	Ag

Cable

Cable structure	3 x 2.5 mm² + 1 x 0.5 mm² (DIN EN 13602, VDE 0295 class 5)
Wiring class	Class 5
External cable diameter	10.5 mm ±0.5 mm
Type of conductor	spiraled
Outer sheath, material	PUR
External sheath, color	red
Minimum bending radius	157.5 mm (15 x diameter)
Coil diameter	57 mm
Block length	0.5 m
Effective length	max. 4 m

Locking

Locking type	No locking option for U-lock

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 10;
	For details about hazardous substances go to tab “Downloads”, Category “Manufacturer's declaration”

Drawings

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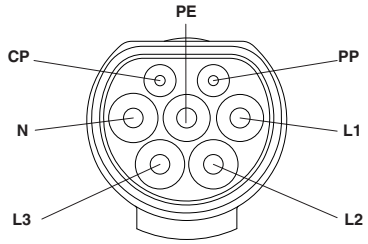
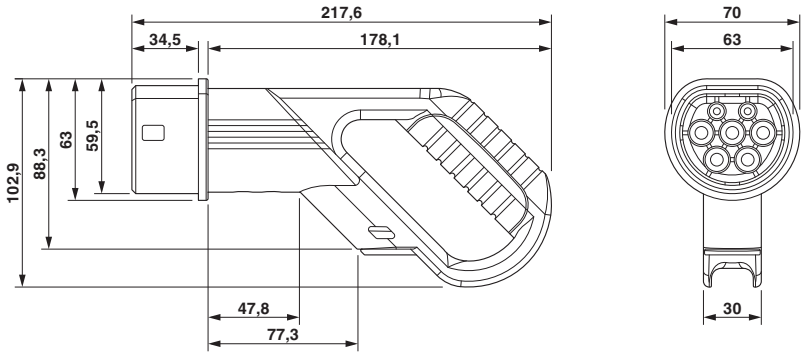
Schematic diagram



Pin assignment of the Vehicle Connector

Dimensional drawing



Make sure that the vehicle charging connector is placed in an appropriate charging connector holder, which ensures a minimum protection rating of IP24 in accordance with IEC 61851-1, for the entire time between charging. To create this charging connector holder, use the dimensions of the vehicle charging connector. Detailed dimensions can also be found in the Download area.

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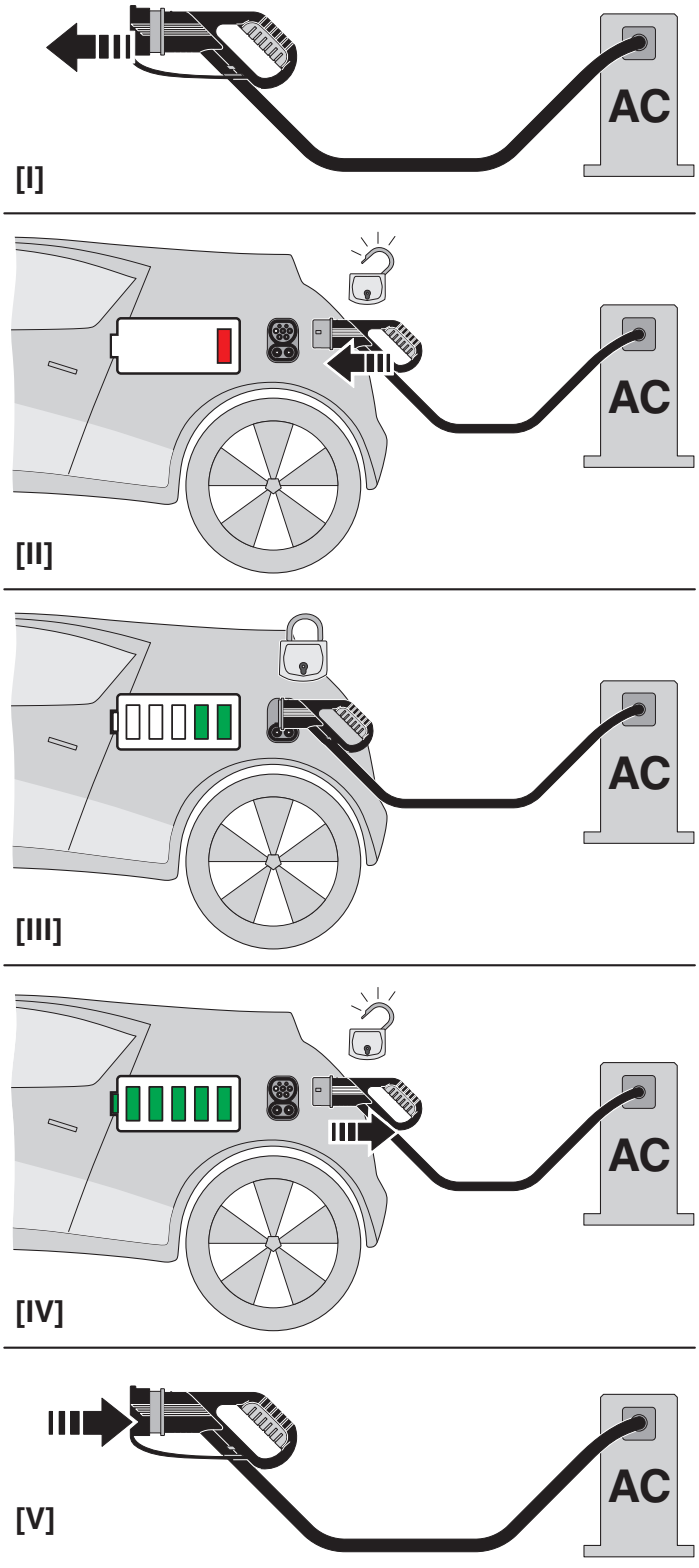
Schematic diagram



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Classifications

eCl@ss

eCl@ss 4.0	27140800
eCl@ss 4.1	27140800
eCl@ss 5.0	27143400
eCl@ss 5.1	27143400
eCl@ss 6.0	27143400
eCl@ss 7.0	27449001

ETIM

ETIM 3.0	EC002061
ETIM 4.0	EC002061
ETIM 6.0	EC002897
ETIM 7.0	EC002897

UNSPSC

UNSPSC 6.01	30211923
UNSPSC 7.0901	39121522
UNSPSC 11	39121522
UNSPSC 12.01	39121522
UNSPSC 13.2	39121522
UNSPSC 18.0	39121522
UNSPSC 19.0	39121522
UNSPSC 20.0	39121522
UNSPSC 21.0	39121522

Accessories

Accessories

AC charging controller

AC charging controller - EV-CC-AC1-M3-CC-SER-HS - 1622459

The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

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Accessories

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB - 1622460

The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB-XC-25X - 1627742

The EV-CC-AC1-M3-CC-SER-PCB charging controller as a PCB for charging electric vehicles on a 3-phase AC power grid according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

AC charging controller - EV-CC-AC1-M3-CC-SER-PCB-MSTB - 1627367

The EV-CC-AC1-M3-CC-SER-PCB-MSTB charging controller as a PCB for charging electric vehicles according to IEC 61851-1, Mode 3, optimized for charging stations with permanently mounted Vehicle Connector. Connection via PCB connector on header.

AC charging controller - EM-CP-PP-ETH - 2902802

EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

Charging connector holder

Charging connector holder - EV-T2AC-PARK - 1624148

CHARX connect, Charging connector holder, for vehicle charging connectors on charging stations (EVSE), Type 2, IEC 62196-2, Front mounting